

Be Happy, Be Prepared!

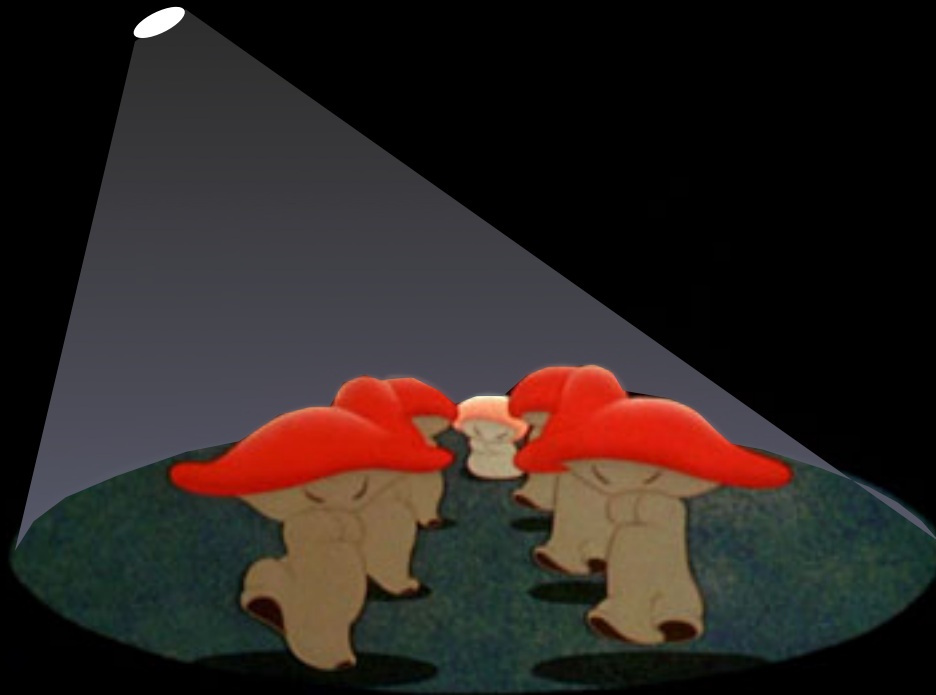
30 Minute site wide power outage

Monday 4/3

07:00 - 07:30



Power down critical items on
before you leave on Friday



March 2006 Shutdown Week 5

“Violating the second law of thermodynamics”

R.J. Tesarek

Fermilab

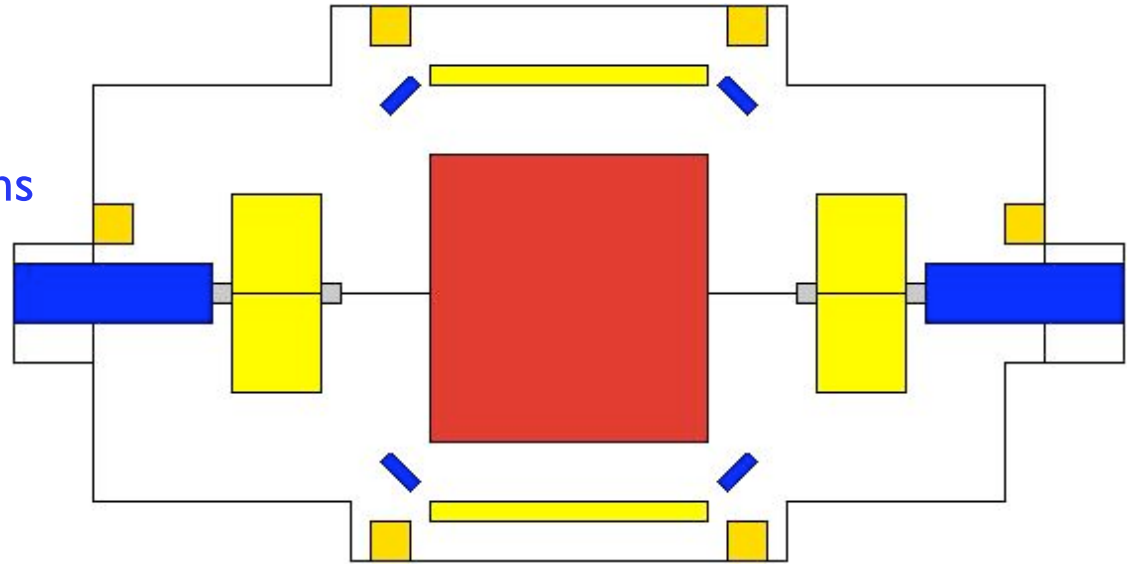
3/30/06

Status

Detector Status:

- Chambers on N₂ (From 3/13)
- Hardware event builder returns
- IMU and CMP steel open
- Very limited HV for Plug calorimeter (4 HV crates out for maintenance)
- Hadron timing crates out for TDC upgrade (Run IIb)
- CMX arches open
- N. CMP and arches 1/2 open until further notice

Hall Configuration



Check w/ Operations manager for detailed configuration each day.

Important Dates

Date	
2/27	Shutdown begins
2/27 - 6/1	No Owl shifts (Cryo: 3/6 - 5/22): HV off at night!
3/1 - 4/6	No Hardware Event Builder
3/7	Open all steel, full detector access
3/15	Chambers off flammable gas
3/20 - 3/23	Hilman roller replacement (NW IMU steel)
3/18	8 hour power outage to B0 and trailers
4/5 - 4/26	Solenoid bore access (accelerate if possible)
4/24	1/2 hour site wide power outage
4/3	1/2 hour site wide power outage
4/26 - 5/5	Hillman roller replacement (SW,NE IMU steel)
5/1	Flammable gas to COT (test recirc. system)
5/12	Restrict access to collision hall
5/12 - 5/25	Cosmic rays, Calibration and debugging
5/25	Tevatron Cold

Shutdown details: <http://ncdf67.fnal.gov/~tesarek/shutdown06>

Last Week


Shutdown Activities:

- VRB rack work complete (D.Allen, J. Lewis, JJ, *et al.*)
- Load balancing silicon VRBs (Ankush, Si crew)
- EM Timing TDC upgrade complete (E. James, EM timing crew)
- Started IFIX version upgrade (8/25 computers upgraded)
- Many maintenance jobs
- + NW Hillman roller replacement success
 - + NW IMU tracking parallel to beamline (SW IMU not).
 - Photographs and damaged rollers sent to Hillman
 - Need to replace/refurbish Hillmans on SW,NE IMU
- CAEN SY527 mainframe rehab. behind schedule
 - 6 sent to Feynman, 5 returned and working
 - Procedures at Feynman worked out, anticipate accelerated

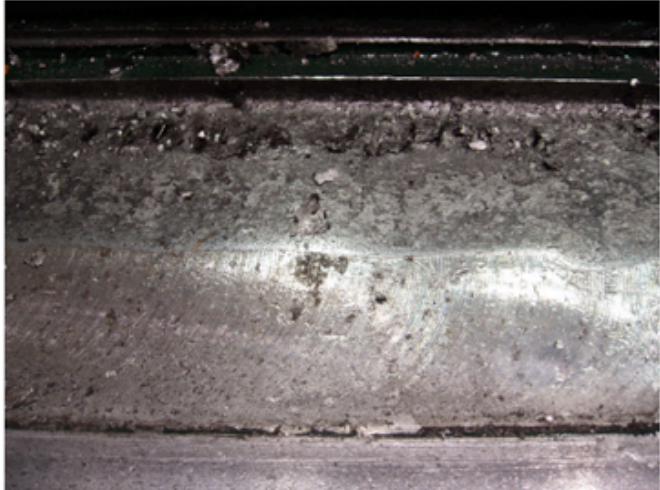
IMU Hillman Roller Work

http://ncdf67.fnal.gov/~tesarek/shutdown06/Hillman_roller/


Apple Amazon Apple eBay News Accel e-logs CDF Online Run Info weather FNAL phone ACNET



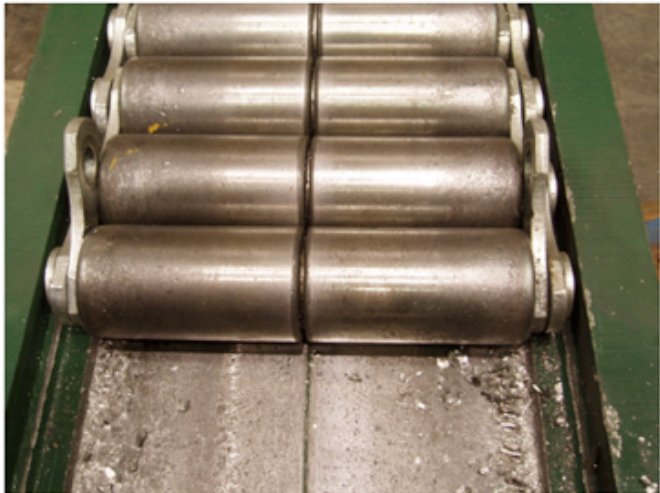
Damaged Hillman roller and bearing surface. The Hillman roller is upside down in the figure. The load bearing plate at the bottom. Note the flaking metal at the edges of the bearing plate and the discoloration of the rollers near the edges.



Bearing plate detail. Note the milling marks from manufacture of the bearing surface near the center. The edges show the flaking metal off of the bearing surface (only one side shown).



Damaged Hillman rollers. Note the discoloration of the edge of the bearings. Pitting is observed over the whole roller surface, but the edges are particularly damaged.



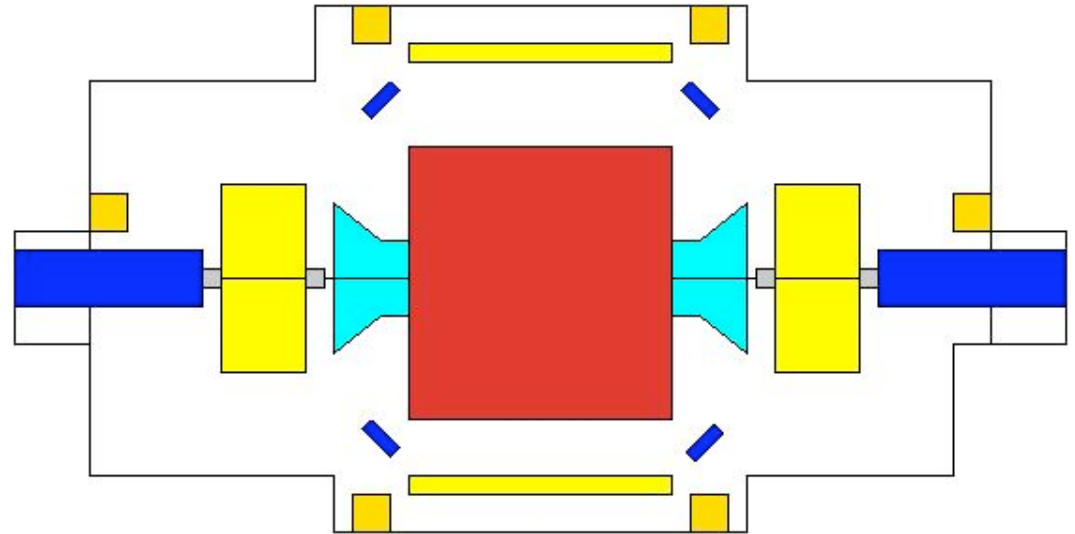
Hillman rollers and bearing surface.

Open "http://ncdf67.fnal.gov/~tesarek/shutdown06/Hillman_roller/P1010047.JPG" in a new tab

http://ncdf67.fnal.gov/~tesarek/shutdown06/Hillman_roller

Work Next Week (Week 6)

- Power Outage Monday (4/3)
0700 - 0730
- Plugs open Monday (4/3)
- COT Noise reduction
- WHA work
- Plug EM Timing work



Check w/ Operations manager
for detailed configuration each
day.

Summary

9 weeks to go!

Let's be careful.

**Site Wide Power Outage
Monday 4/3 07:00 - 07:30**

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